WRITTEN ANSWERS TO UNSTARRED QUESTIONS

Projects undertaken by CMRI, Dhanbad

291. SHRI DIPANKAR MUKHERJEE:
SHRIMATI CHANDRA KALA PANDEY:

Will the Minister of COAL AND MINES be pleased to state:

(a) the number of projects undertaken by CMRI, Dhanbad during the last five years;

(b) the number of consultancy projects and number of in-house projects undertaken during the period;

(c) whether any new technology has been developed; and

(d) if so, the details and if not, the reasons therefore?

THE MINISTER OF STATE IN THE MINISTRY OF COAL AND MINES (SHRI RAVI SHANKAR PRASAD): (a) and (b) The details of projects undertaken by CMRI, Dhanbad during last five years are as under:-

Projects Undertaken	1996-97	1997-98	1998-99	1999-2000	2000-01
Consultancy	135	154	135	148	137
in House	11	07	08	11	-
Others	14	16	05	13	08
TOTAL:	160	177	148	172	145

(c) and (d) Based on the information furnished by Central Mining

Research Institute (CMRI), the details of new technologies developed and achievement made by them during last three years are as under:-

	Technologies	Achievement
1	Mechanised depillaring of thick coal seam with cable bolts	Technology being used by mining companies
2	Use of fly ash as mine fill	Technology has been demonstrated at laboratory successfully
3	Under-Pinning based method of mining for depillaring thick contiguous seam	Technology being adopted at Chirimiri, Nowrozabad mines.
4	Delayed bulk filling of open stopes with high density cemented fill for pillar extraction	Technology demonstrated at laboratory successfully
5	Subsidence research	CMRI getting externally funded projects.
6	Subsidence prediction models for Indian multi-seam mining situation	Technology being utilised by coal companies
7	Wide Stall method without stowing for partial extraction	Technology being used at Chirimiri, Umaria mines
8	Development of wooden spacers for air-deck blasting	Being used by mining companies
9	Development of new spacing and burden formulae	-do-
10	Dynamic balancing of pressure technique and application of cryogenic technology	Coal companies are given the technology through consultancy projects
11	Methodology for assessment of deflagration characteristics of permitted explosives	Method has been adopted for in-house quality check

	Technologies	Achievement
12	Methodology for determination of toxic fume generated by cap sensitive commercial explosives	Method has been adopted for in-house quality check
13	Development of explosive	Being manufactured in the brand name of 'INDOBOOST' and 'INDOGEL'
14	Fire protective coating	Being extensively used
15	On-line mine environmental monitoring system for underground mine	At negotiation stage with SSI for commercialization
16	Arsenic removal from water	Applied for patent; In the process of negotiation for commercialization
17	Mushroom cultivation in simulated abandoned mine condition	Development completed
18	Steel arch setting device	-do-
19	Improved type steel cog	-do-
20	Mechanised device for spraying fire protective coating material	Being commercialized
21	Strata Movement Warning System	System placed in an underground mine on experimental basis and working well
22	Roof Bolting machine	Already patented
23	Coal Slasher	Already patented
24	Coal Sampler	Already patented
25	Improved device for temperature measurement in hazardous environment	Being manufactured and supplied to coal mines

	Technologies		Achievement
26	Computerized equipment monitoring	package for condition	Lab model/proto type developed for field trial
27	Universal power pack	un-interrupted	Proto type developed for field trial

Mines accident in West Bengal

292. DR. Y. LAKSHMI PRASAD:
SHRI KRISHNA KUMAR BIRLA:

Will the Minister of COAL & MINES be pleased to state:

(a) whether several illegal miners were killed in mine collapse near Asansol in West Bengal on 10th October, 2001;

(b) if so, how illegal mining of coal of the abandoned colliering was going; and

(c) the control of Eastern Coalfields Ltd. over the abondoned mines?

THE MINISTER OF STATE IN THE MINISTRY OF COAL AND MINES (SHRI RAVI SHANKAR PRASAD): (a) The district authorities have not been able to confirm the casualities.

(b) The incident did not occur in an abandoned mine. Illegal mining was going on under a private land at Lalband about 15 Kms. from Asansol town, which does not come under the jurisdiction of Coal India Limited.

(c) ECL has taken the following measures to check illegal mining in abandoned mines:

(i) Permanent sealing off the entries *i.e.* shafts, inclines etc. of abandoned underground mines.
(ii) In case of opencast mines, some are drowned, in some cases, exposed coal is filled up/dozed off.
(iii) Fences are erected with notices not to enter the abandoned area.
(iv) Dozing off and filling up of illegal mining sites wherever possible.